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NOTICE OF ALLOWANCE AND FEE(S) DUE

46329 7590 06/01/2010 STMicroelectronics Inc.

TITLE OF INVENTION: DIGITAL MESSAGE TRANSMISSION PROTOCOL

c/o WOLF, GREENFIELD & SACKS, P.C. 600 Atlantic Avenue BOSTON, MA 02210-2206 EXAMINER SMITH, JOSHUA Y

PAPER NUMBER

2477 DATE MAILED: 06/01/2010

ARTHNIT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,249	04/14/2005	Laurent Regnier	S1022.81220US00	1226

 APPLN, TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 09/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on nerwise in Block 1, by (rders and notification of r a) specifying a new corres	naintenance fees wil pondence address; a	I be mailed to the current and/or (b) indicating a sep	t correspondence address as sarate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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BOSTON, MA	J2210-2206					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,249	04/14/2005		Laurent Regnier	S1022.81220US00		1226	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/01/2010	
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SMITH, JO	OSHUA Y	2477	370-474000	•			
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Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	ne)			
PLEASE NOTE: Uni	less an assignee is ident	ified below, no assignee	data will appear on the p	atent. If an assignee	is identified below, the	document has been filed for	
(A) NAME OF ASSI		action of this form is 140	(B) RESIDENCE: (CITY				
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Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual	poration or other private gr	oup entity Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply any	previously paid issue fee	shown above)	
Issue Fee		to the	A check is enclosed.	1 F PEO 2020			
Advance Order -	vo small entity discount p # of Copies	permitted)	Payment by credit car The Director is hereby	authorized to charge	the required fee(s), any d	eficiency, or credit any	
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5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no lon	ger claiming SMALT	ENTITY status. See 37 C	'EP 1 27(a)(2)	
						he assignee or other party in	
interest as shown by the	records of the United Sta	ites Patent and Trademark	COInce.				
Authorized Signature				Date			
Typed or printed name			Registration No.				
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STMicroelectronics Inc.			SMITH, JOSHUA Y		
	EENFIELD & SACKS, I	ART UNIT	PAPER NUMBER		
600 Atlantic Avenue BOSTON, MA 02210-2206			2477 DATE MAILED: 06/01/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 393 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 393 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/531,249 REGNIER, LAURENT Notice of Allowability Examiner Art Unit JOSHUA SMITH 2477 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the amendment filed 01/05/2010. The allowed claim(s) is/are 1-4 and 6-20; respectively renumbered 1-19. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. T Examiner's Statement of Reasons for Allowance of Biological Material Other .

/Chirag G Shah/

Supervisory Patent Examiner, Art Unit 2477

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EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James H. Morris on 05/19/2010.

The application has been amended as follows:

 (Currently amended) A method for transmitting, between a monitoring circuit integrated with a microprocessor and an analysis tool, digital messages, each message comprising at least one data packet, the method comprising:

a/ for each message of the digital messages, dividing each data packet of a digital message into at least one successive segments of a same predetermined size, each segment of the successive segments being classified according to at least one of the five following types of segments:

- a first type of segment, each segment classified as the first type containing a message start;
- a second type of segment, each segment classified as the second type containing intermediary data;
- a third type of segment, each segment classified as the third type containing a packet end;

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 a fourth type of segment, each segment classified as the fourth type containing a message end; or

 a fifth type of segment, each segment classified as the fifth type being an empty segment;

b/ sending, by the monitoring circuit, at a same time as each segment of the successive segments, an identification signal characterizing a type difference between a considered segment and a previous segment; and

c/ reconstituting, by the analysis tool, the packets of the digital message by arranging end to end the successive segments containing data of a same packet;

wherein a segment of the successive segments having both the start and the end of the digital message is classified as the fourth type of segment, and

wherein, if the at least one data packets of the digital message comprises a plurality of packets if the message that includes at least one data packet comprises a plurality of data packets and if a segment of the successive segments has both the start of the digital message and the end of a first packet among the plurality of packets of the digital message, the segment is classified as the third type of segment.

 (Currently amended) A system for transmitting, between a monitoring circuit integrated to a microprocessor and an analysis tool, digital messages, each digital message comprises at least one data packet, the device comprising: Application/Control Number: 10/531,249

Art Unit: 2477

means for dividing each data packet of a digital message into at least one successive segments of same predetermined size, each segment of the successive segments being classified according to at least one of the five following segment types:

- segment containing a message start;
- segment containing intermediary data;
- segment containing a packet end;
- segment containing a message end; or
- empty segment;

means for sending at the same time as each segment of the successive segments, an identification signal characterizing the type difference between a considered segment and a previous segment; and

means for reconstituting the packets of the digital message by arranging end to end the successive segments containing data of a same packet;

wherein the means for dividing each data packet classifies a segment of the successive segments having both the start and the end of the digital message is classified as a message end segment, and

wherein, if the at least one data packets of the digital message comprises a plurality of packets if the message that includes at least one data packet comprises a plurality of data packets and if a segment of the successive segments has both the start of the digital message and the end of a first packet among the plurality of packets of the digital message, the segment is classified as being a packet end segment.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to JOSHUA SMITH whose telephone number is 571-270-

1826. The examiner can normally be reached on Monday-Friday, 10:30am-7pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chirag Shah can be reached on 571-272-3144. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua Smith

/J.S./ Patent Examiner

05-21-2010

/Chirag G Shah/

Supervisory Patent Examiner, Art Unit 2477